

DERWENT-ACC-NO: 1989-159680

DERWENT-WEEK: 198922

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TITLE: Current limiter for three-phase network - includes
superconducting coil connected between neutral and earth

INVENTOR: LAUMOND, Y; PHAM, V D ; THURIES, E

PATENT-ASSIGNEE: ALSTHOM[ALST]

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR <u>2621749</u> A	April 14, 1989	N/A	010	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
FR 2621749A	N/A	1987FR-0013907	October 8, 1987

INT-CL (IPC): H02H009/08

ABSTRACTED-PUB-NO: FR 2621749A

BASIC-ABSTRACT:

The three phase network includes a high tension line with a transformer (T) having a star-triangle configuration. Three phase conductors lead from the transformer (10,20,30) and are protected by circuit breakers (11,21,31). The line is intended to have a neutral point (0) at earth potential.

An earth-phase fault current may be limited by connecting between neutral and earth an assembly comprising a superconducting coil (15) of low inductance, in parallel with a resistance (18). The coil is kept in a cryostat in order to maintain its superconducting state.

USE - Protection of three-phase network against excess voltage with rapid response.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: CURRENT LIMIT THREE PHASE NETWORK SUPERCONDUCTING COIL CONNECT
NEUTRAL EARTH

DERWENT-CLASS: X12 X13

EPI-CODES: X12-C05; X13-C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1989-121741

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FIG. 1

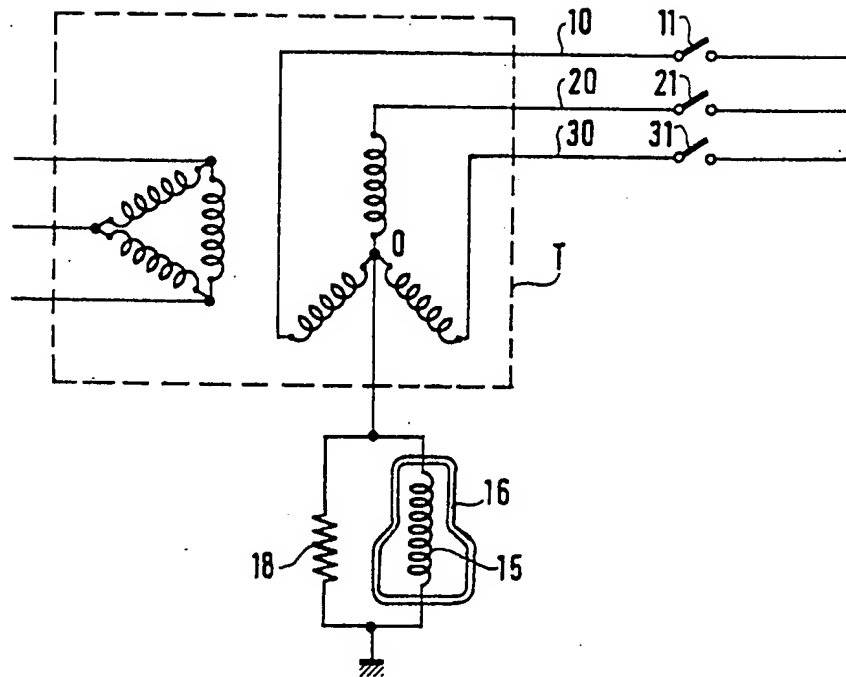


FIG. 2

